



# UNITED STATES PATENT AND TRADEMARK OFFICE

UNITED STATES DEPARTMENT OF COMMERCE  
United States Patent and Trademark Office  
Address: COMMISSIONER FOR PATENTS  
P.O. Box 1450  
Alexandria, Virginia 22313-1450  
www.uspto.gov

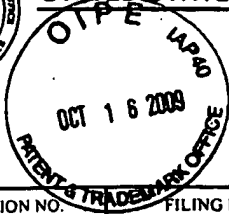
APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/815,130	03/31/2004	Norbert Steven Parsoncault	8209.053.NPUS01	9169
70165 7590 11/05/2009 SEAGATE TECHNOLOGY LLC C/O NOVAK DRUCE & QUIGG LLP 1000 LOUISIANA, Fifty-Third Floor HOUSTON, TX 77002			EXAMINER KRAUSE, JUSTIN MITCHELL	
			ART UNIT 3656	PAPER NUMBER
			MAIL DATE 11/05/2009	DELIVERY MODE PAPER

**Please find below and/or attached an Office communication concerning this application or proceeding.**

The time period for reply, if any, is set in the attached communication.



# UNITED STATES PATENT AND TRADEMARK OFFICE



UNITED STATES DEPARTMENT OF COMMERCE  
United States Patent and Trademark Office  
Address: COMMISSIONER FOR PATENTS  
P.O. Box 1450  
Alexandria, Virginia 22313-1450  
www.uspto.gov

APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/815,130	03/31/2004	Norbert Steven Parsoncault	8209.053.NPUS01	9169

70165 7590 09/30/2009  
SEAGATE TECHNOLOGY LLC  
C/O NOVAK DRUCE & QUIGG LLP  
1000 LOUISIANA, Fifty-Third Floor  
HOUSTON, TX 77002

EXAMINER	
KRAUSE, JUSTIN MITCHELL	

ART UNIT	PAPER NUMBER
3656	

MAIL DATE	DELIVERY MODE
09/30/2009	PAPER

Please find below and/or attached an Office communication concerning this application or proceeding.

The time period for reply, if any, is set in the attached communication.

<b>Interview Summary</b>	<b>Application No.</b>	<b>Applicant(s)</b>	
	10/815,130	PARSONEAULT ET AL.	
	<b>Examiner</b>	<b>Art Unit</b>	
	JUSTIN KRAUSE	3656	

All participants (applicant, applicant's representative, PTO personnel):

(1) JUSTIN KRAUSE. (3) \_\_\_\_\_

(2) Mike Garrabrants. (4) \_\_\_\_\_

Date of Interview: 24 September 2009.

Type: a) ☒ Telephonic b) ☐ Video Conference  
c) ☐ Personal [copy given to: 1) ☐ applicant 2) ☐ applicant's representative]

Exhibit shown or demonstration conducted: d) ☐ Yes e) ☒ No.  
If Yes, brief description: \_\_\_\_\_

Claim(s) discussed: 1.

Identification of prior art discussed: None.

Agreement with respect to the claims f) ☐ was reached. g) ☒ was not reached. h) ☐ N/A.

Substance of Interview including description of the general nature of what was agreed to if an agreement was reached, or any other comments: Mr. Garrabrants called inquiring about the Examiner's Amendment which was previously proposed prior to the Final Rejection. The proposed Examiner's Amendment was faxed to Mr. Garrabrants for review. In response, Mr. Garrabrants proposed an alternative amendment which differs in scope from the Examiner's Amendment proposal and would require further search and consideration.

(A fuller description, if necessary, and a copy of the amendments which the examiner agreed would render the claims allowable, if available, must be attached. Also, where no copy of the amendments that would render the claims allowable is available, a summary thereof must be attached.)

THE FORMAL WRITTEN REPLY TO THE LAST OFFICE ACTION MUST INCLUDE THE SUBSTANCE OF THE INTERVIEW. (See MPEP Section 713.04). If a reply to the last Office action has already been filed, APPLICANT IS GIVEN A NON-EXTENDABLE PERIOD OF THE LONGER OF ONE MONTH OR THIRTY DAYS FROM THIS INTERVIEW DATE, OR THE MAILING DATE OF THIS INTERVIEW SUMMARY FORM, WHICHEVER IS LATER, TO FILE A STATEMENT OF THE SUBSTANCE OF THE INTERVIEW. See Summary of Record of Interview requirements on reverse side or on attached sheet.

/Justin Krause/ Examiner, Art Unit 3656	
--	--

Novak Druce & Quigg LLP

## facsimile transmittal

To: Examiner Krause

Fax: 273  
571-272-3012

From: Michael Garrabrants

Date: 9/23/2009

Re: 10/815,130

Pages: 2 (including coversheet)

Cc: [Name]

RETURN FAX NUMBER: 415-814-6165

MY PHONE NUMBER: 415-814-6155

☐ Urgent ☐ For review ☐ Please comment ☐ Please reply ☐ Please recycle

Notes: Select this text and then delete it or replace with your own. To save changes to this template for future use, choose **Save As** from the **File** menu. In the **Save as type** list, click **Document Template**. The next time you want to use this template, choose **New** from the **File** menu, and then double-click the template.

Please see attached sheets

# confidential

Dear Examiner Krause:

Thank you for your proposed claim amendment. It does address your interpretation about the inner surface "having a hold formed there through" potentially still reading simply on the inner surface of the liner journal, with the second end hole. However, the claim doesn't leave adequate scope regarding certain embodiments. In particular, defining the surfaces as cylindrical and planar are too narrowing over the prior art, and exclude situations where there may be some tapering in a journal formed by such a liner, or something other than a completely flat liner bottom.

Would you consider a claim as proposed below? I believe that it addresses your concern, while not being unduly restrictive.

Thank you,  
Mike Garrabrants

Current claim 1:

1. (Previously presented) A fluid dynamic bearing motor comprising:
- a base having a bore hole;
  - a liner secured within the bore hole, wherein the liner includes a first end, and a second end, wherein the second end includes an inner surface having a hole formed there through;
  - a rotor assembly having a shaft partially disposed within the liner, the shaft configured to rotate on the surface of the second end of the liner and relative to the liner;
  - a fluid dynamic bearing disposed between the liner and shaft; and
  - a recirculation channel disposed outside of the liner, the recirculation channel for recirculating lubricating fluid during relative rotation of the shaft and the liner.

Proposed Amended claim 1:

1. (Currently Amended) A fluid dynamic bearing motor comprising:
- a base having a bore hole;
  - a liner secured within the bore hole, wherein the liner ~~defines a journal including~~ includes a first end opening, and a second end distal the first end opening, ~~the second end comprising a transverse surface wherein the second end includes an inner surface~~ having a hole formed there through;
  - a rotor assembly having a shaft partially disposed within the liner, the shaft configured to rotate on the transverse surface of the second end of the liner and relative to the liner;
  - a fluid dynamic bearing disposed between the liner and shaft; and
  - a recirculation channel disposed outside of the liner, the recirculation channel for recirculating lubricating fluid during relative rotation of the shaft and the liner.